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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/907,250	07/17/2001	Yung Yi Chang	B-4248 618947-0	5651
36716 75	590 09/03/2004		EXAMINER	
LADAS & PARRY			NGUYEN, KIMNHUNG T	
	RE BOULEVARD, SUIT S. CA 90036-5679	E 2100	ART UNIT	PAPER NUMBER
2001	-,		2674	ं
			DATE MAILED: 09/03/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Application No.	Applicant(s)			
		09/907,250	CHANG, YUNG YI			
	Office Action Summary	Examiner	Art Unit			
		Kimnhung Nguyen	2674			
Period for	 The MAILING DATE of this communication app Reply 	ears on the cover sheet with the c	orrespondence address			
THE M - Extens after S - If the p - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR REPLY IAILING DATE OF THIS COMMUNICATION. Sions of time may be available under the provisions of 37 CFR 1.13 IX (6) MONTHS from the mailing date of this communication. It is increased for reply specified above is less than thirty (30) days, a reply be a for eply within the set or extended period for reply within the set or extended period for reply will, by statute, ply received by the Office later than three months after the mailing a patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>02 Oc</u>	ctober 2003.				
,	This action is FINAL . 2b)⊠ This action is non-final.					
						
·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositio	n of Claims					
5)⊠ (6)⊠ (7)□ (Claim(s) 1-3 and 5-14 is/are pending in the appraish Of the above claim(s) is/are withdraw Claim(s) 1-3 and 6-8 is/are allowed. Claim(s) 5 and 9-14 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicatio	n Papers					
9) <u></u> ⊤	he specification is objected to by the Examiner	·.				
10)□ T	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
A	applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correcti					
11) <u>□</u> T	he oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority ur	der 35 U.S.C. § 119					
a) [cknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority documents Certified copies of the priority documents Copies of the certified copies of the prioric application from the International Bureause the attached detailed Office action for a list of	have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No d in this National Stage			
Attachment(s	s)					
_ `	of References Cited (PTO-892)	4) Interview Summary (PTO-413)			
2) D Notice	of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Dat	e			
	tion Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	5) Notice of Informal Pa 6) Other:	tent Application (PTO-152)			
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DETAILED ACTION

This Application has been examined. The claims 1-3 and 5-14 are pending. The examination results are as following.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 5, 9-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admission (Japanese Lai Open Application 11-281957 of figures 1-4) in view of Su et al. (US 6,590,555).

Regarding claim 5, figure 2 of Prior Art discloses a device for eliminating the flickering of thin-film-transistor liquid-crystal-display (TFT-LCD), the device comprising a first switch (SW1), configured between a power supply and an output end of the device, a discharge circuit, with one end connected between the first switch and the output end of the device and the other end connected to the ground, a second switch for controlling discharge circuit grounding; a trigger signal source for controlling the switches, wherein the first switch is on and the second switch is off, a output end of the device is connected to the power supply and the circuit is recharged, and when the first switch is off and the second switch is on, the discharge circuit is grounded and discharged. However, figure 2 of prior art does not disclose means for delaying opening of the second switch at lower temperature, the means disposed in the discharge circuit. Su et al. disclose a control

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circuit for LCD having delaying opening of the switch at lower temperature (see driving circuit includes a switch and temperature sensor and driving mode is used at low temperature, see column 4, lines 26-45). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the using of the switch at lower temperature as taught by Su et al. into the system of prior art as discussed above because this would for providing the improving the display frame.

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Regarding claims 9 and 14 figure 2 of Prior Art discloses a device for eliminating the flickering of thin-film-transistor liquid-crystal-display (TFT-LCD), the device comprising a first transistor or first switch (SW1), configured between a power supply and an output end of the device, a discharge circuit, with one end connected between the first transistor or first switch (because in the specification of this application discloses the TFT is a switch) and the output end of the device and the other end connected to the ground, a second transistor or second switch (SW2) for controlling discharge circuit grounding; a trigger signal source for controlling the switches, wherein the first transistor or switch is on and the second transistor or switch is off, a output end of the device is connected to the power supply and the circuit is recharged, and when the first transistor or switch is off and the second transistor or switch is on, the discharge circuit is grounded and discharged. However, figure 2 of prior art does not disclose means for delaying opening of the second transistor or switch at lower temperature, the means disposed in the discharge circuit. Su et al. disclose a control circuit for LCD having delaying opening of the switch that maybe transistor at lower temperature (see driving circuit includes a switch and temperature sensor and driving mode is used at low temperature, see column

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4, lines 26-45). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the using of the switch at lower temperature as taught by Su et al. into the system of prior art as discussed above because this would for providing the improving the display frame.

Regarding claim 10, figure 2 of prior art discloses wherein the discharge circuit comprises a resistor and a capacitor.

Regarding claim 11, figure 2 of prior art discloses wherein the means for delaying opening of the second transistor is disposed in the discharge.

Regarding claim 12, figure 2 of prior art discloses wherein the for delaying opening of the second transistor is configured between the trigger signal source and the first transistor.

Rgarding claim 13, figure 2 of prior art discloses wherein the means for delaying opening of the second transistor is configured between the trigger signal source and the second transistor.

Allowable Subject Matter

3. Claims 1-3, and 6-8 are allowed.

The following is an examiner's statement of reasons for allowance: The present invention is directed to a device for eliminating the flickering of thin-film-transistor liquid-crystal-display (TFT-LCD), the device comprising a first switch, a second switch, a discharge circuit, a trigger signal source for controlling the switches, wherein the first switch is on and the second switch is off, a output end of the device is connected to the power supply and the circuit is recharged, and when the first switch is off and the second switch is on, the discharge circuit is grounded and

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discharged. The combination of closest prior art, of figures 1-4, wood et al. (5,926,162), Su et al. (US 6,590,555), Akiyama (US 6,278,426) show a similar to a device of thin-film-transistor liquid-crystal-display (TFT-LCD), the device comprising a first switch, a second switch, a discharge circuit, a trigger signal source for controlling the switches, wherein the first switch is on and the second switch is off, a output end of the device is connected to the power supply and the circuit is recharged, and when the first switch is off and the second switch is on, the discharge circuit is grounded and discharged and having a change of temperature. However, they fail to teach a means for delaying opening of the second switch at lower temperatures, wherein the means is a component or circuit with a negative temperature coefficient as claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number (703) 308-0425.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD A HJERPE can be reached on (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D. C. 20231

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Or faxed to:

(703) 872-9314 (for Technology Center 2600 only).

Hand-delivery response should be brought to: Crystal Park II, 2121 Crystal Drive, Arlington, VA Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Kimnhung Nguyen August 25, 2004

RICHARD HJERPE

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